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APPLICATION NO.		1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/936,922		10/31/2001	Meir Shinitzky	. 110598	3023
		7590	11/19/2003	e ^c	EXAMI	NER
	BROWDY				WANG, SHENGJUN	
	624 NINTH STREET, N.W. WASHINGTON, DC 20001				ART UNIT	PAPER NUMBER
					1617	1-0
					DATE MAILED: 11/19/2003	1+

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)					
	09/936,922	SHINITZKY, MEIR					
Office Action Summary	Examiner	Art Unit					
	Shengjun Wang	1617					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on 04 S	Responsive to communication(s) filed on <u>04 September 2003</u> .						
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	•						
 4)⊠ Claim(s) 1-8,17-26 and 37 is/are pending in th 4a) Of the above claim(s) 21-24 is/are withdraw 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) 1-8, 17-20, 25-26 and 37 is/are reject 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/o 	vn from consideration.	,					
Application Papers	or orocion roquironicina.						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 							
Attachment(s)	_						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)					

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DETAILED ACTION

Receipt of applicants' amendments and remarks submitted September 4, 2003 is acknowledged.

Note the claims have been examined insofar as they read on the elected disorder, Schizophrenia, and the searched species as indicated in the prior office action.

Claim Rejections 35 U.S.C. 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6, 8, 17-20 and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chun et al. (US 6,1250,345), in view of Piazza et al. (IDS, AA), Kobayashi et al. (IDS, AG-AJ).
- 3. Chun et al. teaches a method of promoting the survival of myelin producing cell, and treating neuro-disorders, including Alzheimer's disease, by employing LPA receptor agonist. See, particularly, column 5, lines 3-37; column 6, lines 37 bridging column 8, line 30.

Chun et al. does not teach expressly the employment of cyclic phosphate, e.g., acyl 1,2 glycerophosphate, or its homolog, for treating schizophrenia.

However, Piazza or Kobayashi et al. teaches that acyl 1,2 glycerophosphates are similarly useful as LPA, and are known to be useful for treating dementia. See, particularly, the abstract and column 2, lines22 bridging column 4, line 6 in Piazza, and the abstracts of AI and AJ.

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Therefore, it would have been prima facie obvious to a person of ordinary skill in the art, at the time the claimed the invention was made, to employ acyl 1,2 cyclic phosphate, or *its* homologue, for treating schizophrenia, a form of dementia.

A person of ordinary skill in the art would have been motivated to remove employ acyl cyclic phosphate for treating schizophrenia, a form of dementia because acyl cyclic phosphate are known to be similarly useful as LPA, and are particularly useful for treating dementia. Agents known generally for treating neuro-disorders would have reasonably been expected to be useful for treating any neuro-disorders, including schizophrenia. *The compounds employed herein read on homolog of acyl 1, 2 cyclic glycerolphosate, e.g., Y is –(CH₂)_m-, wherein m is 1. One having ordinary skill in the art would have been motivated to prepare the instantly claimed compound because such structurally homologous compounds are expected to possess similar properties. It has been held that compounds that are structurally homologous to prior art compounds are prima facie obvious, absent a showing of unexpected results. In re Hass, 60 USPQ 544 (CCPA 1944); In re Henze, 85 USPQ 261 (CCPA 1950).*

Response to the Arguments

Applicants' amendments and remarks submitted September 4, 2003 have been fully considered, the amendments are persuasive to overcome the rejections under 35 U.S.C. 112, second paragraph, but are not persuasive for the rejections set forth above. Particularly, the general formula in the claim as amended still read on compound wherein Y is –(CH₂)_m-, and m is 1 (m is defined as 1-3 in the claims). Particularly, 1,3 cyclic propanediol phosphate as recited in claims 8 and 26.

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4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shengjun Wang, Ph.D. whose telephone number is (703) 308-4554. The examiner can normally be reached on Monday-Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan, can be reached on (703) 305-1877. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

Patent Examiner

November 13, 2003